Depth 6	Contents 7	Reference to last Measurement 8
WR	258552-	
IT-	2586-00	
Cess-	2586-00	
CBF-	259-00	
Fine-	1750-00	
Addn.	781-00	
Charges	25371-00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427622

First and final bill:

Serial No. Premeasurements:

Name of Work Improvements of roads and drains in Amruthahalli. A. Manjunath

From To.

Name of Contractor of nature of Agency house road in S.C. colony Amruthahalli in ward no. 07

Date of commencement of work byatarayanapura. Sri. A. Manjunath.

Date 1	Full description, etc, of work 2	Dimensions: Number	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Est cost:- 29350 lakhs.						
	Job code:-	007-15-000048					
	Head of account:-	P1878					
	A.S. No:-	AS|CE(YNK)|134|14-15; dt: 11.02.15					
	T.S. NO:-	TS|SE(YNK)|47|14-15; dt: 11.02.15					
	Agr NO:-	No. EE|BTP|Agr|278|15-16; dt: 03.03.16.					
	Work order no:-	No. EE|BTP|WO|278|15-16; dt: 03.03.16.					
	Approved tender price:-	28 2201 2.17					
	Date of commencement:-						

MEASUREMENT BOOK

MAIN-BILL:-

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	Date of recording:- 2	3	4	5	6	7	8
Item.No.01:-	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw up to 2mts and an average lift upto to 1.5m., excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete.,						
	Qty vide page no. 427623 →					284.58 cum	
	At the rate of Rs. 73.26 →						20848.33
Item.No.02:-	Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1000m complete.						
	Qty vide page no. 427625 →					3162.00 Sqm	
	At the rate of Rs. 17.79 →						56251.98

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	
Item.No.03:-	Compaction of ori... power roller including fil... cost of all labour, HOM o...	
	Qty vide page n...	
	At the rate of Rs ...	
Item.No.04:-	Providing, layin... aggregates to wet-mix-m... material with water at o... method of tipper to site, ...	

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
al means in ordinary soil cp to 2mts and on average levelled and sides neatly erelled neatly after breaking			
→ 284.58 cum			20848.33
r road surface to a depth of al within all lifts and leads			
3162.00 sqm			56251.98

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427629

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
Item No.03:-	Compaction of original ground with max of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete., Qty vide page no. 427625 → 3162 sqm At the rate of Rs. 4.34 →						13723.08
Item No.04:-	Providing, laying, spreading and compacting graded stone aggregates to wet-mix-macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete.,						
	Qty vide page no. 427626 →			945.0 cum			
	At the rate of Rs. 1396.11 →						1317433.95
Item.No.07:-	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m.						
	Qty vide page no. 427627 →			25.92 cum			
	At the rate of Rs. 170.60 →						4421.95

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
Item.No.08:-	Providing and with opc cement @ 220kg coarse aggregates e0.8 mixed, concrete laid in foundation and plinth, machinery, curing com
	Qty vide page
	At the rate of
Item.No.10:-	Providing and propping etc., and x

T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
ace	and	compacting with	
d density		complete,	
945.0 cum			1317433.95
ation of buildings,		culverts,	
trical conduits either in pits			
in ordinary soil not exceeding			
bottom and sides of pits and			
oil clear from edges of			
25.92 cum			4421.95

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427630

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item. No. 08:- Providing and laying in position plain cement concrete of mix M10 with opc cement @ 220 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms, th well compacted, in foundation and plinth, including cost of all materials, labour, hire of machinery, curing complete.,						
	Qty vide page no. 427627 →				4.32 cum		21201.00
	At the rate of Rs. 4907.64 →						
	Item. No. 10:- Providing and removing centering, shuttering, strutting, propping etc., and removal of form works for foundation, footings,						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	bases of columns for mass concrete including labour complete as per specifications.					cost of all materials	
	Qty vide page no. 427627 →			11.76	sqm		
	At the rate of Rs. 229.21 →						2695.50
Item. No. 12:-	Providing TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and forwelding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design.,						
	Qty vide page no. 427628 →			0.86	qtl		
	At the rate of Rs. 75930.77 →						65300.46

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
Item. No. 09:-	Providing in foundation with c less than 20cm high cost of materials, la
	Culverts - sidewall:
	Qty ltc
	At the
Item. No. 13:-	Providing
	cement mortar 1:3

ENT BOOK

imensions			Contents	Reference to last Measurement
h	Breadth 5	Depth 6	7	8
e	including		cost of all	materials
ations.				
→	11.76 sqm			2695.50
→				
ement - for RCC work including				
g, hooking, placing in position,				
required, tying with binding				
joining members wherever necessary				
→	0.86 qtl			65300.46
7 →				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427631

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No 09:- Providing and constructing granite/trap/basalt size stonemasonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cm high, bond stones at 1.00 m apart in each course including cost of materials, labour, curing complete.;						
	Culverts - sidewall:	03x2=6	5.35	0.60	0.60	= 11.55 cum	
	Qty ltd to 5.76 cum						21413.49
	At the rate of Rs. 3717.62 →						
	Item No 13:- Providing and ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep after raking joints to depth of 20mm nicely.;						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	culverts - sidewall	03x2=6	5.35	-	0.60	= 19.26 sqm	
	Qty ltd to 9.60 sqm						
	At the rate of Rs. 90.01 →						864.00
	Item. No. 11:- Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15cms thick layers and well compacted.,						
		03	5.35	1.80	0.30	= 8.64 cum	
	At the rate of Rs. 5666.44 →						48958.00
	Item. No. 05:- Providing and applying primer coat with bitumen emulsion on prepared surface of granular base.,						
	Pillakemma street: 0-30	01	30.0	4.35	-	130.50	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	30-60
	60-90
	90-120
	120-14
	Mungusappa layout
	mainroad: 0-30
	30-60
	60-70
	4th cross 0-30
	30-60

T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
-	0·60 =	19·26 sqm	
			864·00
concrete using 20mm and			
ix concrete for RCC works laid			
pacted.)			
1·80	0·30 =	8·64 cum	
			48958·00
ner coat with bitumen emulsion			
ase.)			
4·35	-	130·50	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427632

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	30-60	01	30·0	3·50	- =	105·0	
	60-90	01	30·0	4·60	- =	138·0	
	90-120	01	30·0	6·0	- =	180·0	
	120-149	01	29·0	5·45	- =	158·05	
						711·55 sqm	
	Mungusappa layout:						
	main road: 0-30	01	30·0	5·45	- =	163·50	
	30-60	01	30·0	5·20	- =	156·0	
	60-70	01	10·0	5·0	- =	50·0	
						369·50 sqm	
	4th cross 0-30	01	30·0	3·6	- =	108·0	
	30-60	01	30·0	3·5	- =	105·0	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	60-90	01	30.0	4.15	-	= 124.50	
	90-106	01	16.0	4.70	-	= 75.20	
						412.70 sqm	
	3rd cross 0-30	01	30.0	4.8	-	= 144.00	
	30-60	01	30.0	4.75	-	= 142.50	
	60-90	01	30.0	4.40	-	= 132.0	
	90-102	01	12.0	4.10	-	= 49.20	
						467.70 sqm	
	Amruthanagara 'A' sector:						
	1st cross road: 0-30	01	30.0	5.0	-	= 150.0	
	2nd cross road 0-30	01	30.0	5.0	-	= 150.0	
	30-45	01	15.0	5.5	-	= 82.50	
						382.50 sqm	

M. A
M

Serial No. .....
Name of Work ..... Fro
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Numbe
1	2	3
	Maruthi farm house road:	
	Qty vide page no.	
	Qty Hd to.	3162
	At the rate of Rs.	
	Item No 06:- Providing and la	
	-gate of supplying gradin	
	transporting the hot mix to	
	required grade, level and	

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
5	-	= 124.50	
0	-	= 75.20	
		412.70 Sqm	
8	-	= 144.00	
5	-	= 142.50	
10	-	= 132.0	
10	-	= 49.20	
		467.70 Sqm	
.0	-	= 150.0	
.0	-	= 150.0	
.5	-	= 82.50	
		382.50 Sqm	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427633

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Maruthi farm house road:						
	Qty vide page no. 427625 =			820.0 Sqm			
	Total =			3163.95 Sqm			
	Qty Hdd to.	3162.0 Sqm					107887.44
19/8/18	At the rate of Rs. 34.12 →						
	Item No. 06:- Providing and laying bituminous concrete using crushed aggregate of supplying grading, premixed with bituminious binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alligment.)						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Pillakemma street: 0-30	01	30.0	4.35	0.04	= 5.22	
	30-60	01	30.0	3.5	0.04	= 4.90	
	60-90	01	30.0	4.6	0.04	= 5.52	
	90-120	01	30.0	6.0	0.04	= 7.20	
	120-149	01	29.0	5.45	0.04	= 6.32	
						28.46 cum	
	Mungurappa layout:						
	0-30	01	30.0	5.45	0.04	= 6.54	
	30-60	01	30.0	5.20	0.04	= 6.24	
	60-76	01	10.0	5.0	0.04	= 2.06	
						14.78 cum	
	4th cross: 0-30	01	30.0	3.60	0.04	= 4.32	
	30-60	01	30.0	3.50	0.04	= 4.20	
	60-90	01	30.0	4.15	0.04	= 4.98	
	90-106	01	16.0	4.70	0.04	= 3.01	
						16.51 cum	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	3rd cross:	
	0-30	
	30-60	
	60-90	
	90-102	
	Amruthanagara 'A' sect	
	1st cross road: 0-30	
	2nd cross road: 0-30	
	30-45	

OOK

Depth 6	Contents 7	Reference to last Measurement 8
0.04	= 5.22	
0.04	= 4.90	
0.04	= 5.52	
0.04	= 7.20	
0.04	= 6.32	
	28.46 cum	
0.04	= 6.54	
0.04	= 6.24	
0.04	= 2.00	
	14.78 cum	
0.04	= 4.32	
0.04	= 4.20	
0.04	= 4.98	
0.04	= 3.01	
	16.51 cum	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427634

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	3rd cross:						
	0-30	01	30.0	4.80	0.04	= 5.76	
	30-60	01	30.0	4.75	0.04	= 5.70	
	60-90	01	30.0	4.40	0.04	= 5.28	
	90-102	01	12.0	4.10	0.04	= 1.97	
						18.71 cum	
	Amruthanagara 'A' sector:						
	1st cross road: 0-30	01	30.0	5.0	0.04	= 8.00	
	2nd cross road: 0-30	01	30.0	5.0	0.04	= 6.00	
	30-45	01	15.0	5.5	0.04	= 3.30	
						17.30 cum	
				Total =		95.76 cum	

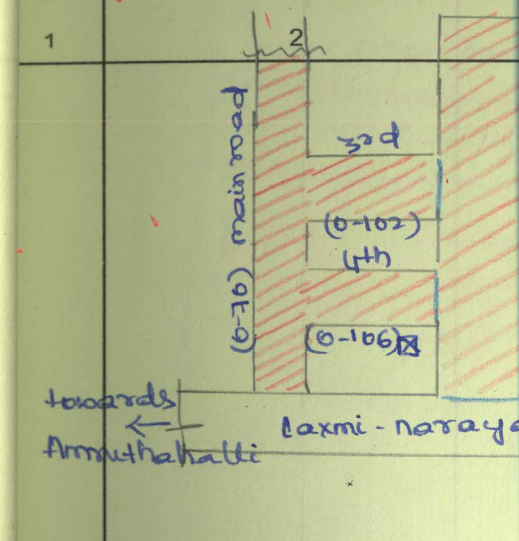
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty ltd to. 94.86 cum						
	At the rate of Rs. 11764.10 →						1115942.52
Item.No.14:-	Lead for disposal of debris.,						
	Qty vide item.No.01 + item.No.09 = 310.50 cum						
	Qty ltd to. 284.58 cum						
	At the rate of Rs. 70.46 →						20051.50
					Total =		2816993.20

Cerfd
Rec/ 14/9/18

Asst.Exe.Engg
AE(W)

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ..
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	

K

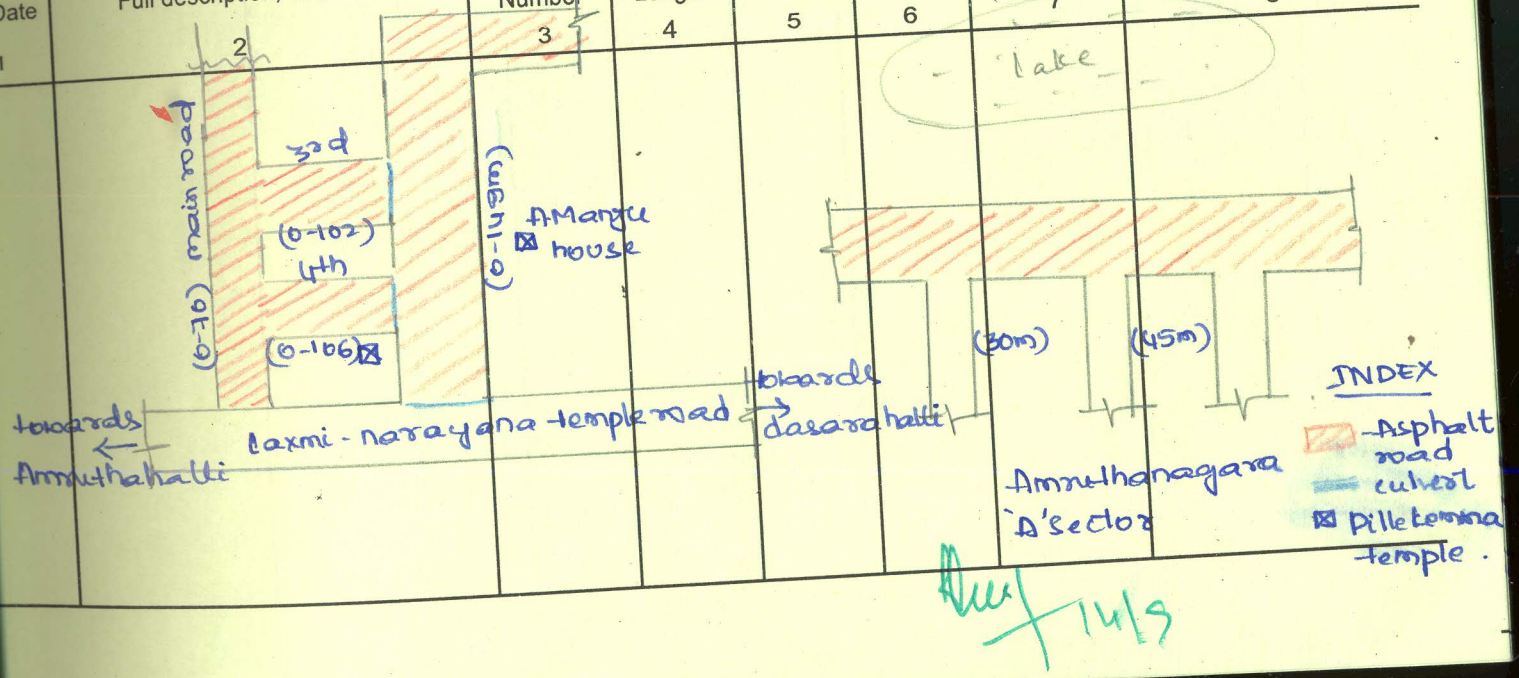
epth 6	Contents 7	Reference to last Measurement 8
		1115942.52
310.50cum		
		20051.50
Total =		2816993.20
Alf. N.D AE(WH)		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427635

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
							

14/9

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate:-						
	1) Certified that the contractor has completed the work.						
	2) Certified that debris has been removed from work spot.						
	Asst Ly. N.D AE(W)						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 28 16 ಗಳ : ಪಾಸು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ. 16 ಹಿಂಪಡಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊ Rs Twenty-seven-Eight ಸಹಿ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ ವಿಷಯಾಧೀಕ್ಷಕರು	

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
pleted		the work.	
d		from work spot.	

M ule 116)
t Book

No. B 427636

Serial No. .....
Name of Work ..... Fr ..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 2816993-0 ಗಮನಿಸಿ : ಪಾವತಿ ಮಾಡಿದ : ಇದರಲ್ಲಿ ರೂ. 101790-0 ಕೊಂಬಾಣಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು ರೂ. 27 15 203- Rs Twenty-Seven-lakh fifteen thou + two hund + three rs. ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ ಲೆಕ್ಕಾಧೀಕ್ಷಕರು ಪಾವತಿಸಿದ ಮೊಬಲಗು ರೂ. ಸ್ವೀಕರಿಸಿದ ಮೊಬಲಗು ರೂ.					Total Rs: 28,16,993-0 IT- 28170-0 Cess. 28170-0 CBF. 2817-0 LR- 28733-0 Fire. 13900-0 Adjn. 101790-0 Chq. 27,15,203-	